

CHAIN OF CUSTODY REPORT

Work Order #: **M105003**

CLIENT: Bristol Environmental & Engineering		INVOICE TO: Bristol Environmental & Eng.		TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div>10</div><div>7</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div><1</div> </div> STD. Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div>5</div><div>4</div><div>3</div><div>2</div><div>1</div><div><1</div> </div> STD. OTHER Please Specify _____ <small>*Turnaround Requests less than standard may incur Rush Charges.</small>													
REPORT TO: Anne Krawawetzer		P.O. NUMBER: 21090															
ADDRESS: Anchitka Island, Alaska																	
PHONE: 770-0974 FAX: 770-0975																	
PROJECT NAME: Anchitka		REQUESTED ANALYSES															
PROJECT NUMBER: 21090																	
SAMPLED BY: Anne & Charlie																	
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	EPA 8082 PCBs	Metals	BOD	TSS	Fecal Coliform	DO/pH							MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01AMTE01SW	5/14/01 @ 10:20	X												W	2	All one sample	
2. 01AMTE01SW	5/14/01 @ 10:20		X										W	2			
3. 01AMTE01SW	5/14/01 @ 10:20			X									W	2			
4. 01AMTE01SW	5/14/01 @ 10:20				X								W	2			
5. 01AMTE01SW	5/14/01 @ 10:20					X							W	2			
6.							4										
7.																	
8.																	
9.																	
10.																	
11.																	
12.																	
13.																	
14.																	
15.																	
RELINQUISHED BY: Charles R. Marshall		DATE: 5/14/01		RECEIVED BY: Marshall P. Ha		DATE: 5/14/01											
PRINT NAME: Charles R. Marshall FIRM: Bristol		TIME: 10:30		PRINT NAME: Marshall P. Ha FIRM: NCA		TIME: 10:30											
RELINQUISHED BY:		DATE:		RECEIVED BY:		DATE:											
PRINT NAME:		TIME:		PRINT NAME:		TIME:											
ADDITIONAL REMARKS:																TEMP:	
COC REV 3/99 Test as per Sampling & Analysis Plan, see Attachment Table SAP-3																PAGE	OF



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Bend 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711
541.383.9310 fax 541.382.7588

6 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 05/14/01 10:30. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M105003



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01 AM TE 01 SW	M105003-01	Water	05/14/01 10:20	05/14/01 10:30

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

1 of 11



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Polychlorinated Biphenyls per EPA Method 8082
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01 AM TE 01 SW (M105003-01) Water						Sampled: 05/14/01 Received: 05/14/01			
Aroclor 1016	ND	0.500	ug/l	1	EPA 8082	05/15/01	05/15/01	0105005	
Aroclor 1221	ND	1.00	"	"	"	"	"	"	
Aroclor 1232	ND	0.500	"	"	"	"	"	"	
Aroclor 1242	ND	0.500	"	"	"	"	"	"	
Aroclor 1248	ND	0.500	"	"	"	"	"	"	
Aroclor 1254	ND	0.500	"	"	"	"	"	"	
Aroclor 1260	ND	0.500	"	"	"	"	"	"	
Surr: 2,4,5,6-Tetrachloro-m-xylene	60.7 %	44-119							
Surr: Decachlorobiphenyl	90.6 %	54-128							

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Total Metals per EPA 6000/7000 Series Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01 AM TE 01 SW (M105003-01) Water						Sampled: 05/14/01 Received: 05/14/01			
Arsenic	0.0249	0.00500	mg/l	1	EPA 6020	05/14/01	05/17/01	0105006	
Cadmium	ND	0.00200	"	"	"	"	"	"	
Chromium	ND	0.00500	"	"	"	"	"	"	
Lead	ND	0.00500	"	"	"	"	"	"	
Selenium	ND	0.00500	"	"	"	"	"	"	
Silver	ND	0.00200	"	"	"	"	"	"	
Mercury	ND	0.0450	"	"	EPA 1631	05/15/01	05/16/01	0105007	

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Project: Amchitka
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Reported:
05/24/01 11:02

Conventional Chemistry Parameters per APHA/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01 AM TE 01 SW (M105003-01) Water					Sampled: 05/14/01 Received: 05/14/01				
Biochemical Oxygen Demand	10.0	4.00	mg/l	1	EPA 405.1	05/14/01	05/19/01	0105003	A-01
Dissolved Oxygen	4.91	1.00	"	"	EPA 360.1	05/14/01	05/14/01	0105002	
pH	9.94	0.100	pH Units	"	EPA 150.1	"	"	"	
Total Suspended Solids	38.0	10.0	mg/l	"	EPA 160.2	05/14/01	05/14/01	0105004	

North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Microbiological Parameters per APHA Standard Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01 AM TE 01 SW (M105003-01) Water						Sampled: 05/14/01 Received: 05/14/01			
E. Coli	ND	2.00	MPN/100 ml	1	SM 9221	05/14/01	05/15/01	0105001	
Total Coliforms	ND	2.00	"	"	"	"	"	"	

North Creek Analytical - Mobile Lab

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Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Polychlorinated Biphenyls per EPA Method 8082 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105005 - 3520B Liq-Liq

Blank (0105005-BLK1)

Prepared & Analyzed: 05/15/01

Aroclor 1016	ND	0.500	ug/l
Aroclor 1221	ND	1.00	"
Aroclor 1232	ND	0.500	"
Aroclor 1242	ND	0.500	"
Aroclor 1248	ND	0.500	"
Aroclor 1254	ND	0.500	"
Aroclor 1260	ND	0.500	"

<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>0.757</i>	<i>"</i>	<i>1.00</i>	<i>75.7</i>	<i>44-119</i>
<i>Surr: Decachlorobiphenyl</i>	<i>1.19</i>	<i>"</i>	<i>1.00</i>	<i>119</i>	<i>54-128</i>

LCS (0105005-BS1)

Prepared & Analyzed: 05/15/01

Aroclor 1254	10.3	0.500	ug/l	10.0	103	47-155
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>0.649</i>		<i>"</i>	<i>1.00</i>	<i>64.9</i>	<i>44-119</i>
<i>Surr: Decachlorobiphenyl</i>	<i>0.954</i>		<i>"</i>	<i>1.00</i>	<i>95.4</i>	<i>54-128</i>

LCS Dup (0105005-BSD1)

Prepared & Analyzed: 05/15/01

Aroclor 1254	10.2	0.500	ug/l	10.0	102	47-155	0.976	50
<i>Surr: 2,4,5,6-Tetrachloro-m-xylene</i>	<i>0.603</i>		<i>"</i>	<i>1.00</i>	<i>60.3</i>	<i>44-119</i>		
<i>Surr: Decachlorobiphenyl</i>	<i>0.898</i>		<i>"</i>	<i>1.00</i>	<i>89.8</i>	<i>54-128</i>		

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105006 - Metals

Blank (0105006-BLK1)

Prepared: 05/14/01 Analyzed: 05/17/01

Arsenic	ND	0.00500	mg/l
Cadmium	ND	0.00200	"
Chromium	ND	0.00500	"
Lead	ND	0.00500	"
Selenium	ND	0.00500	"
Silver	ND	0.00200	"

LCS (0105006-BS1)

Prepared: 05/14/01 Analyzed: 05/17/01

Arsenic	0.0984	0.00500	mg/l	0.100	98.4	80-120
Cadmium	0.0991	0.00200	"	0.100	99.1	80-120
Chromium	0.0946	0.00500	"	0.100	94.6	80-120
Lead	0.0986	0.00500	"	0.100	98.6	80-120
Selenium	0.0974	0.00500	"	0.100	97.4	75-115
Silver	0.104	0.00200	"	0.100	104	80-120

Duplicate (0105006-DUP1)

Source: M105003-01

Prepared: 05/14/01 Analyzed: 05/17/01

Arsenic	0.0257	0.00500	mg/l	0.0249	3.16	20	
Cadmium	ND	0.00200	"	ND	181	20	Q-06
Chromium	ND	0.00500	"	ND	51.6	20	Q-06
Lead	ND	0.00500	"	ND	28.1	20	Q-06
Selenium	ND	0.00500	"	ND	40.0	20	Q-06
Silver	ND	0.00200	"	ND	120	20	Q-06

Matrix Spike (0105006-MS1)

Source: M105003-01

Prepared: 05/14/01 Analyzed: 05/17/01

Arsenic	0.127	0.00500	mg/l	0.100	0.0249	102	75-125
Cadmium	0.102	0.00200	"	0.100	ND	102	75-125
Chromium	0.0975	0.00500	"	0.100	ND	96.5	75-125
Lead	0.0992	0.00500	"	0.100	ND	98.7	75-125
Selenium	0.101	0.00500	"	0.100	ND	100	75-125
Silver	0.0999	0.00200	"	0.100	ND	99.5	75-125

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network



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2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Total Metals per EPA 6000/7000 Series Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105007 - Metals

Blank (0105007-BLK1)

Prepared: 05/15/01 Analyzed: 05/16/01

Mercury	ND	0.0450	mg/l
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LCS (0105007-BS1)

Prepared: 05/15/01 Analyzed: 05/16/01

Mercury	ND	0.0450	mg/l	0.0000625	96.0	85-115
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Duplicate (0105007-DUP1)

Source: M105003-01

Prepared: 05/15/01 Analyzed: 05/16/01

Mercury	ND	0.0450	mg/l	ND	66.7	20	Q-06
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Matrix Spike (0105007-MS1)

Source: M105003-01

Prepared: 05/15/01 Analyzed: 05/16/01

Mercury	ND	0.0450	mg/l	0.0000625	ND	106	75-125
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North Creek Analytical - Mobile Lab

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Conventional Chemistry Parameters per APHA/EPA Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105002 - Wet Chem

Duplicate (0105002-DUP1)

Source: M105003-01

Prepared & Analyzed: 05/14/01

pH	9.92	0.100	pH Units	9.94				0.201	200	
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Batch 0105003 - Wet Chem

Blank (0105003-BLK1)

Prepared: 05/14/01 Analyzed: 05/19/01

Biochemical Oxygen Demand	ND	4.00	mg/l							A-01
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LCS (0105003-BS1)

Prepared: 05/14/01 Analyzed: 05/19/01

Biochemical Oxygen Demand	90.9	4.00	mg/l	198		45.9	75-125			A-01
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Duplicate (0105003-DUP1)

Source: M105003-01

Prepared: 05/14/01 Analyzed: 05/19/01

Biochemical Oxygen Demand	10.0	4.00	mg/l	10.0				0	40	A-01
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Batch 0105004 - Wet Chem

Blank (0105004-BLK1)

Prepared & Analyzed: 05/14/01

Total Suspended Solids	ND	10.0	mg/l							
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LCS (0105004-BS1)

Prepared & Analyzed: 05/14/01

Total Suspended Solids	112	10.0	mg/l	122		91.8	80-120			
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Duplicate (0105004-DUP1)

Source: M105003-01

Prepared & Analyzed: 05/14/01

Total Suspended Solids	34.0	10.0	mg/l	38.0				11.1	20	
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North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
05/24/01 11:02

Microbiological Parameters per APHA Standard Methods - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0105001 - Micro Extractions

Blank (0105001-BLK1)

Prepared: 05/14/01 Analyzed: 05/15/01

E. Coli	ND	2.00 MPN/100 ml								
Total Coliforms	ND	2.00	"							

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Reported:
05/24/01 11:02

Notes and Definitions

A-01 Blank depletion exceeded acceptance limits. LCS BOD 46% of expected value. Results maybe have low bias. In test DO's were taken at 16.0 C to 18.0 C degrees. Corrective action taken to stabilize lab temp at 20 C.

Q-06 Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.

wet Sample results reported on a wet weight basis (as received)

RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: D:\ElmNT\Report\M105003 FINAL 05 24 01 1102.mdb Default Report (not modified)
0105001-DUP1	E. Coli MPN-SM9221		No source sample
0105001-DUP1	TC MPN-SM9221		No source sample
0105003-BLK1	BOD-405.1	Biochemical Oxygen Demand	A-01
0105003-BS1	BOD-405.1	Biochemical Oxygen Demand	A-01
0105003-BS1	BOD-405.1	Biochemical Oxygen Demand	Exceeds lower control limit
0105003-DUP1	BOD-405.1	Biochemical Oxygen Demand	A-01
0105006-DUP1	Ag Total ICPMS 6020	Silver	Q-06
0105006-DUP1	Ag Total ICPMS 6020	Silver	Exceeds RPD limit
0105006-DUP1	Cd Total ICPMS 6020	Cadmium	Q-06
0105006-DUP1	Cd Total ICPMS 6020	Cadmium	Exceeds RPD limit
0105006-DUP1	Cr Total ICPMS 6020	Chromium	Q-06
0105006-DUP1	Cr Total ICPMS 6020	Chromium	Exceeds RPD limit
0105006-DUP1	Pb Total ICPMS 6020	Lead	Q-06
0105006-DUP1	Pb Total ICPMS 6020	Lead	Exceeds RPD limit
0105006-DUP1	Se Total ICPMS 6020	Selenium	Exceeds RPD limit
0105006-DUP1	Se Total ICPMS 6020	Selenium	Q-06
0105007-DUP1	Hg Total CVAF 1631	Mercury	Exceeds RPD limit
0105007-DUP1	Hg Total CVAF 1631	Mercury	Q-06
M105003-01	BOD-405.1	Biochemical Oxygen Demand	A-01